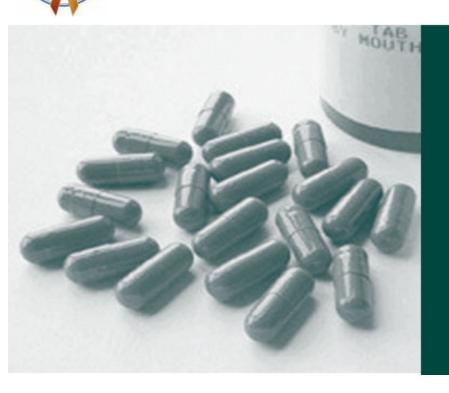


MANAGEMENT SCIENCES for HEALTH



RPM Plus | Rational Pharmaceutical Management Plus





Computerized Drug Supply Management Information System

Presented by Gavin Steel and Jean-Pierre Sallet

HMIS Meeting - Centurion Lake Hotel

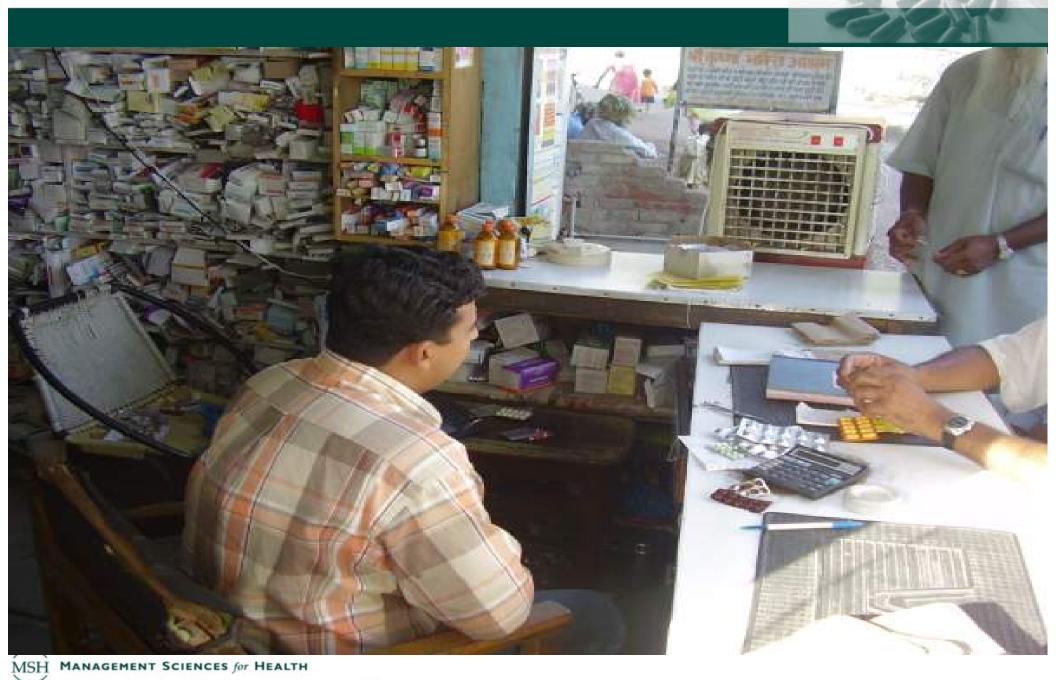
November 2005



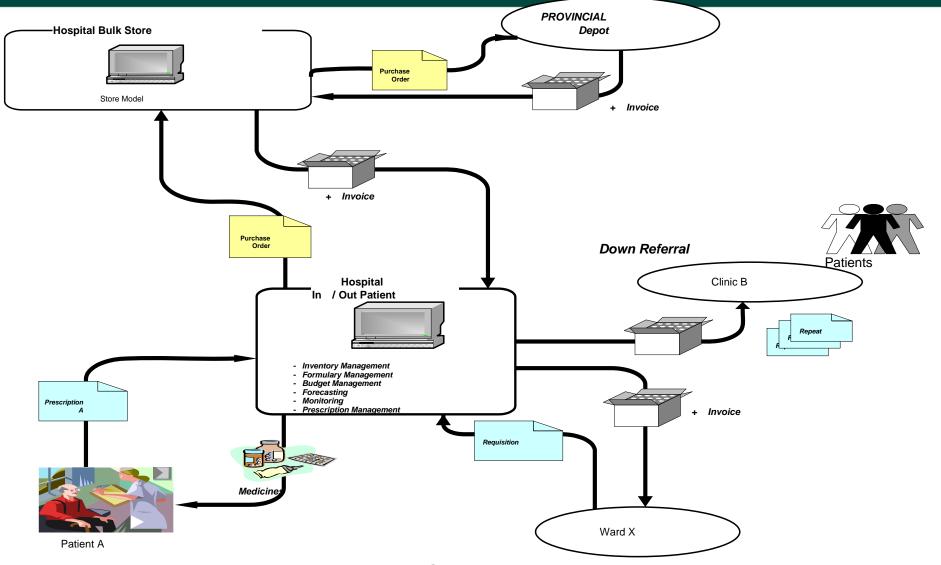


RxSolution – Drug Supply Management Information System

- Focus on Institution Levels (Hospital, District, CHC,...)
- Support Inventory, Procurement, Distribution, Prescribing and Dispensing Practices Management for all Essential Drugs and other related commodities
- Cost All Transactions and Monitor Expenses Vs. Allocated Budget
- Automated Reorder Level and Forecasting
- Assist with the Drug Use Monitoring
- Provide Information to Management ("Blessed by NHISSA")



RPM Plus | Rational Pharmaceutical Management Plus



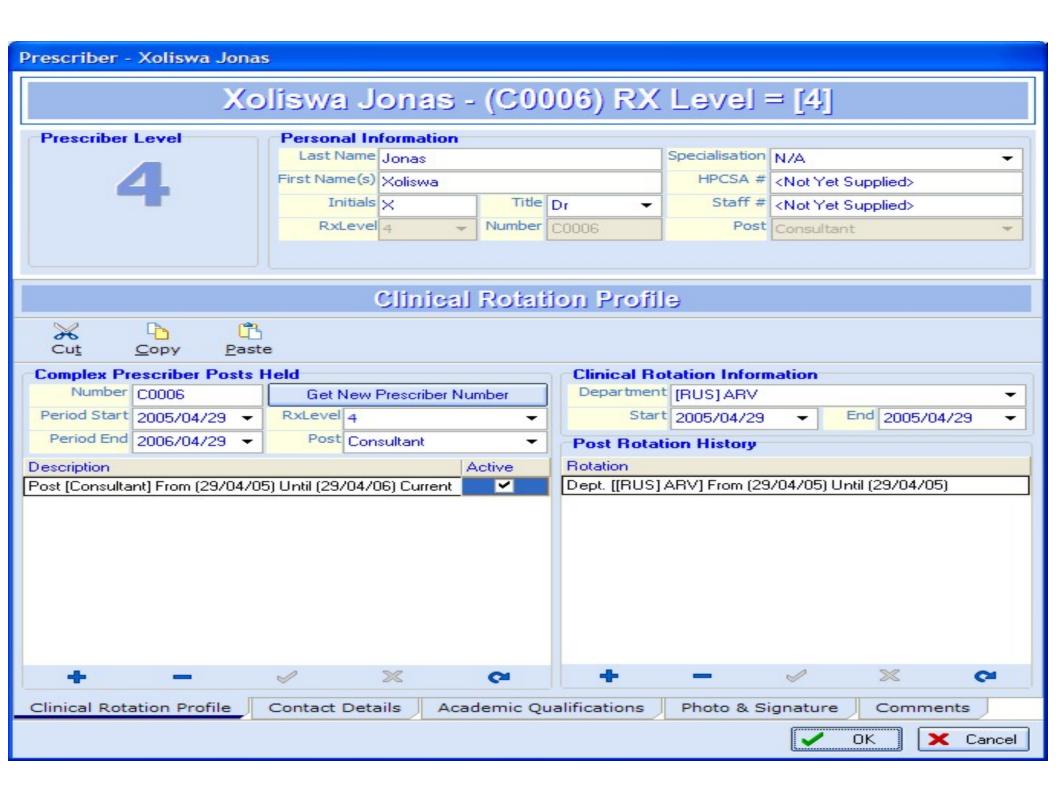
RxSolution – Inventory & Dispensing Management

WHO "8 Dispensing Steps"

- Receive Prescription
- Interpret Prescription
- Retrieve Medication
- Prepare and Process
- Communicate with Patient
- Assure Patient's Understanding
- Monitor Compliance by Patient
- Records

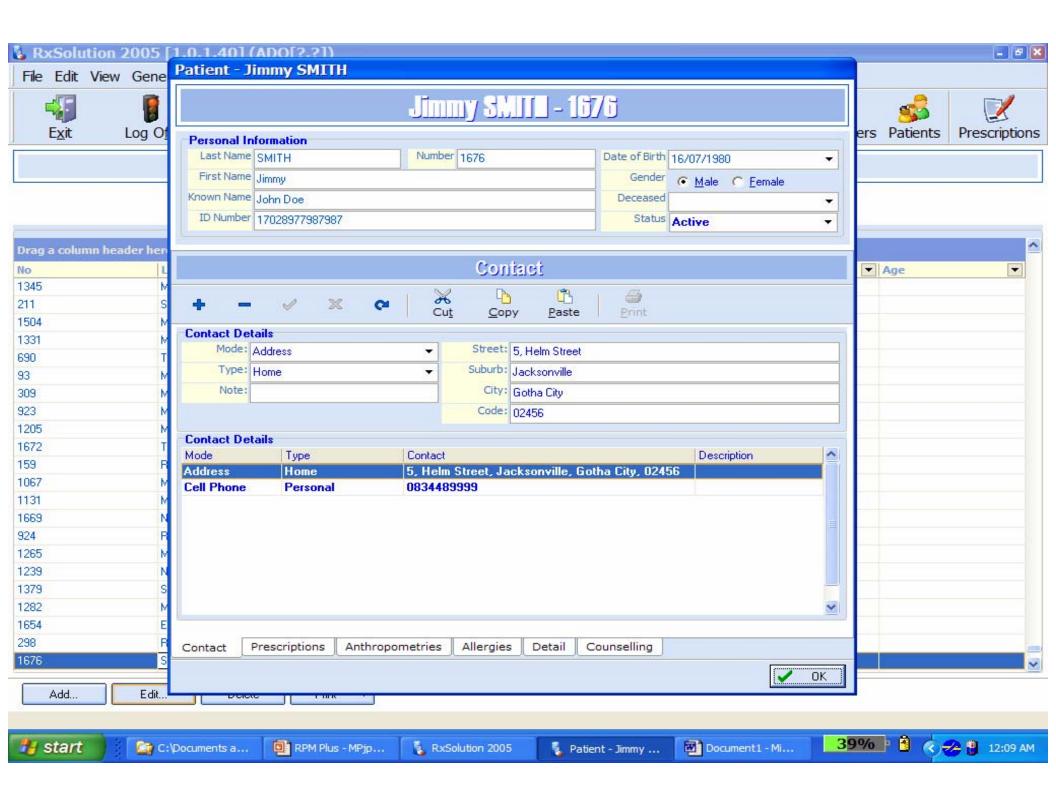
Prescriber & Dispenser Management

- ~ ID's
- ~ Level & Academic Qualifications
- ~ Signature & Photograph(s)
- ~ Special authorizations
- ~ Clinical rotations
- ~ Contacts
 - Addresses
 - Telephone and Cell
 - Wards & offices
 - Email



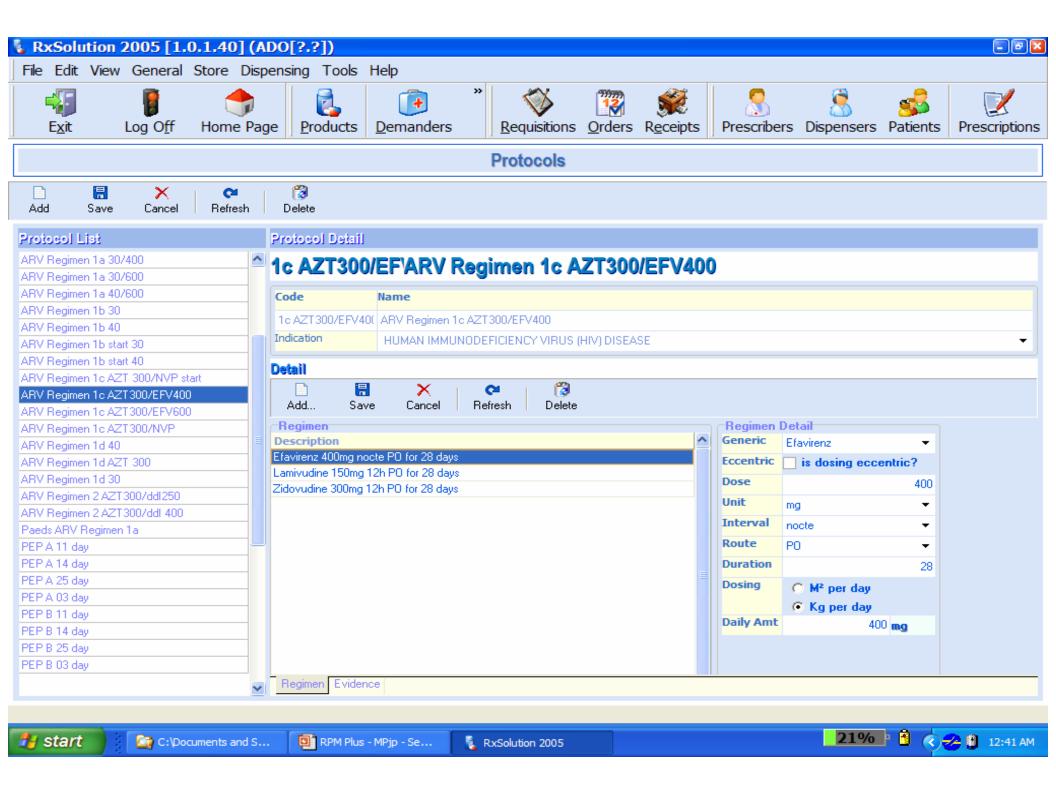
Patient Management

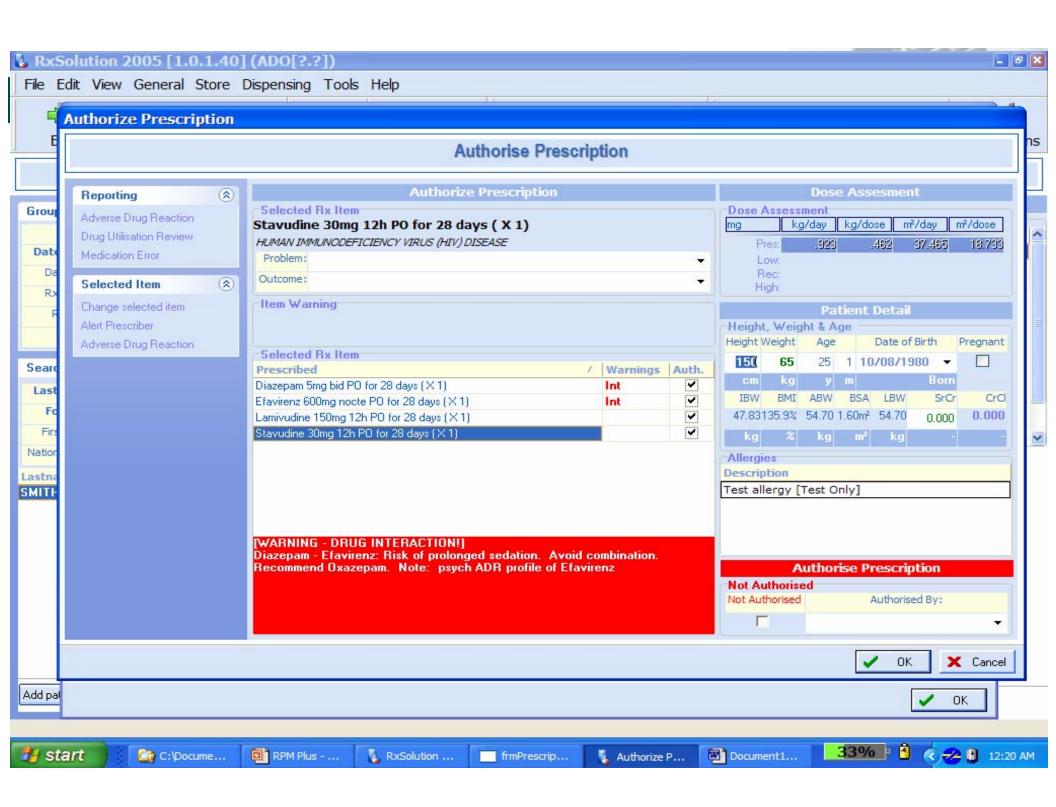
- In addition to standard ID & Personal Info
 - ~ Allergies
 - ~ Anthropometries
 - ~ Pregnancy
 - ~ Renal Function
 - ~ Medication profile
 - ~ Counseling Visit(s)



Prescribing and Dispensing Management

- All the basic data elements for clinical review (e.g. trade vs generic, indication/ICD10)
- Protocol, Standard Dose or Manual based prescribing
- Anthropometric assisted (e.g. Paediatrics, Oncology)
- Prescriber & Dispenser level Off, warning or limit
- Intuitive Dispensing: system recommend best pack size based on regimen, available formulation, route and cost
- Patient Leaflet and Counseling

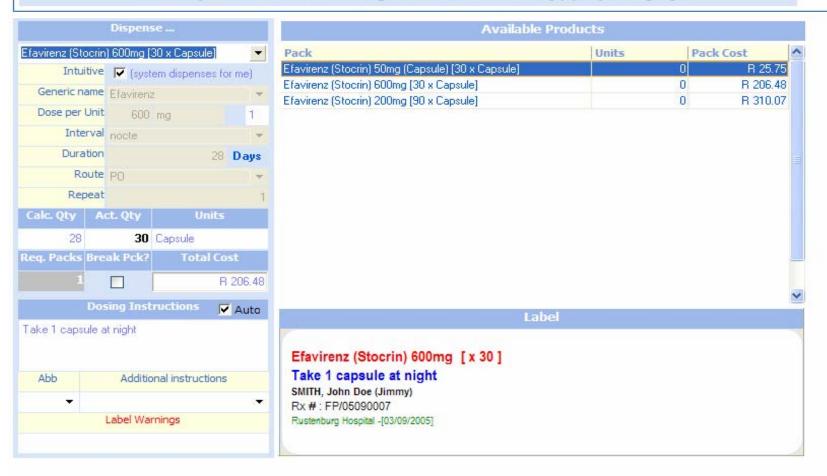








Prescription: Efavirenz 600mg nocte PO for 28 day(s) repeats [1]



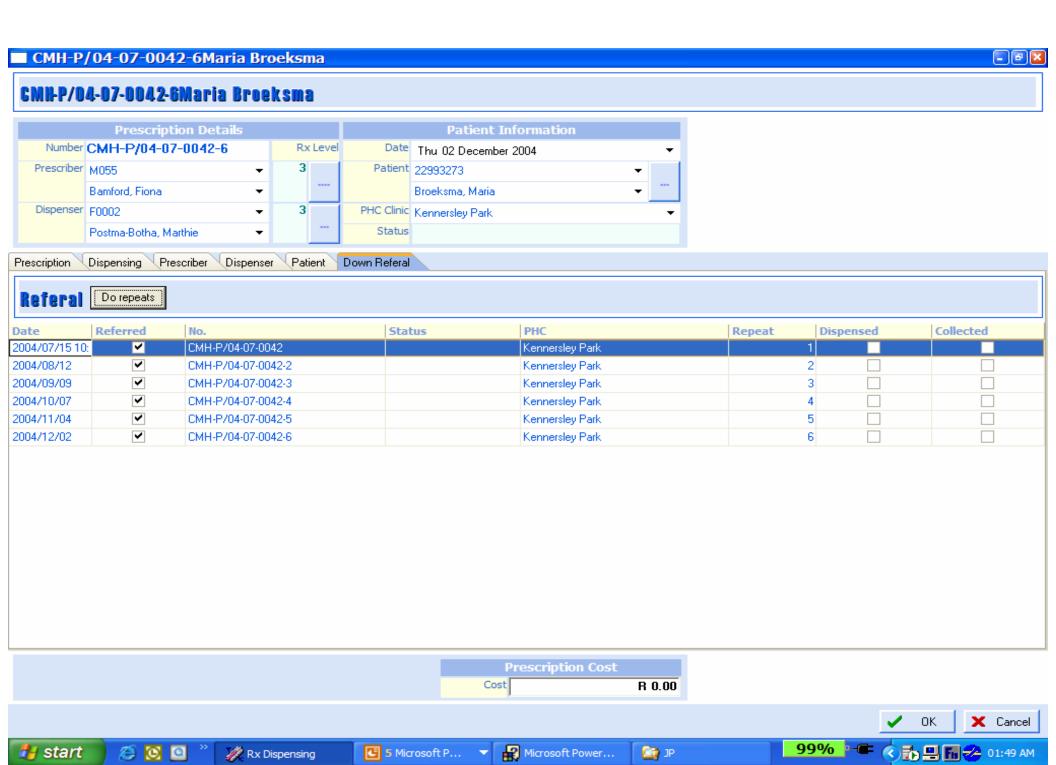






Down Referral

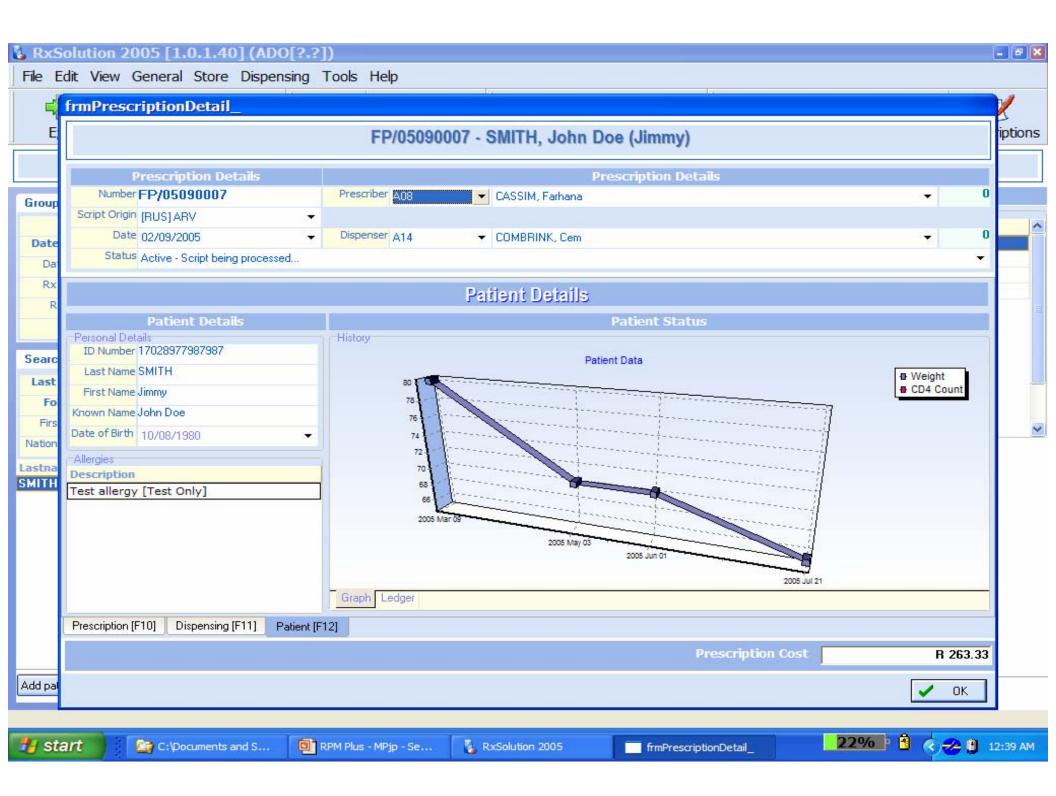
- Patient Driven
- Automatic Scheduling
- Pick list
- Monitoring
- Cost





Prescription Information System

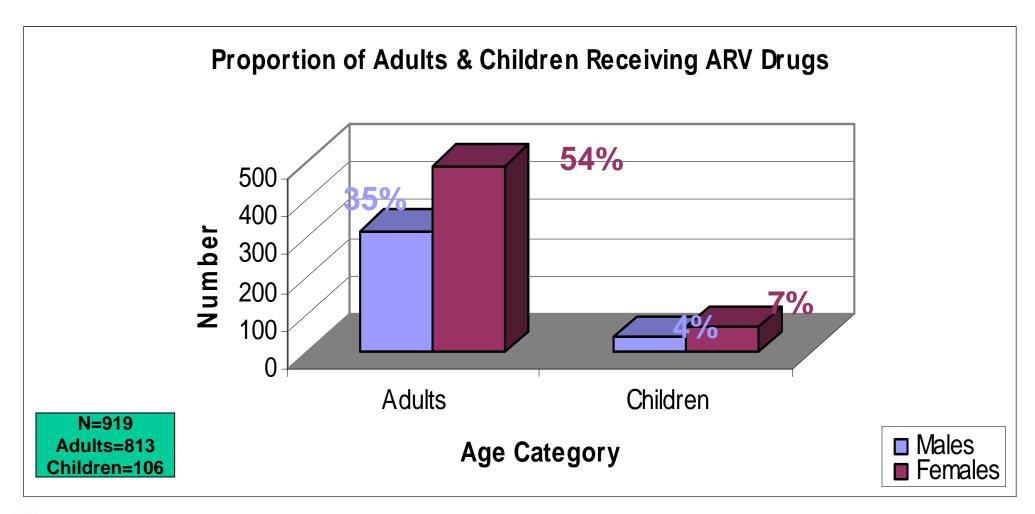
- Prescriber Recommendation
- Modification of Prescription
- Tracking of Modification
- Professional Activity Monitor
- Provides Details about Rational Drug Use Interventions



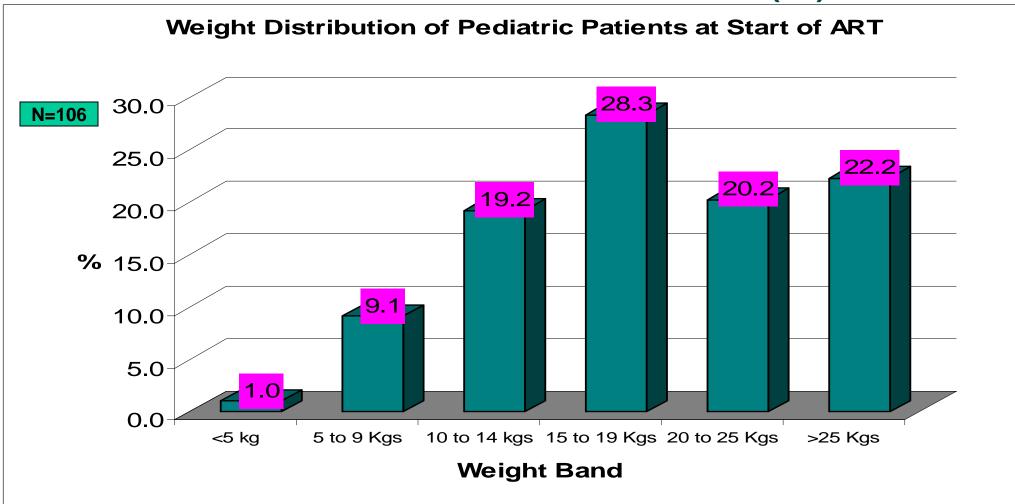
Other Management Utilities

- Adherence Monitoring
- Adverse Drug Event (ADE) reporting
- Medication error reporting
- Drug utilization review
 - ~ Criteria development
 - ~ Implementation
- Standalone Reporting facilities (incl. PEPFAR reporting requirements)
- Over 100 management reports available

Patient Characteristics

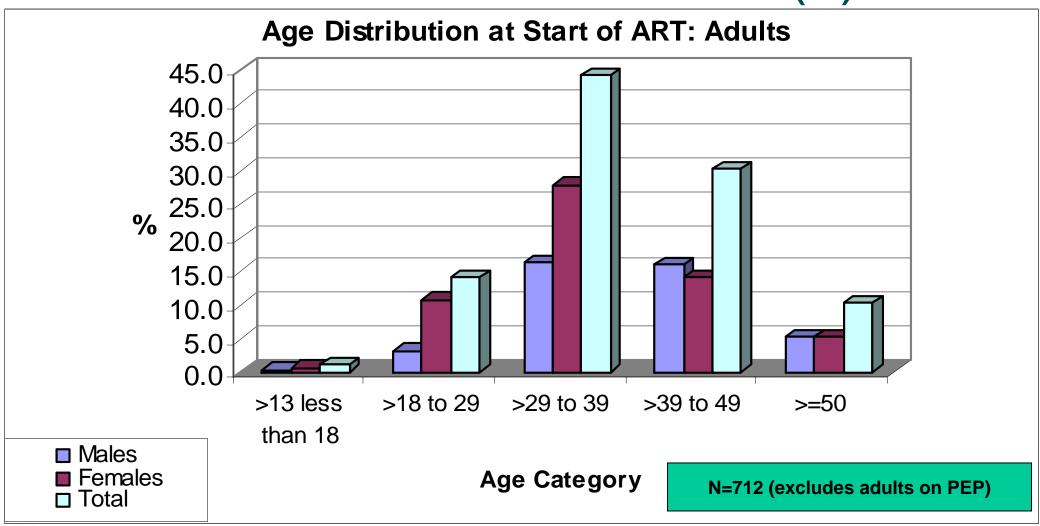


Patient Characteristics (2)



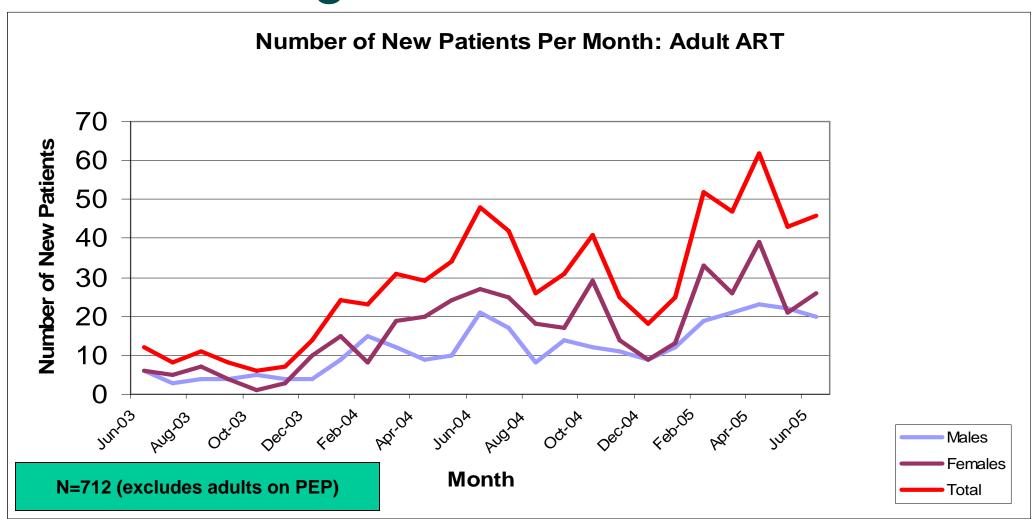


Patient Characteristics (3)





Program Characteristics

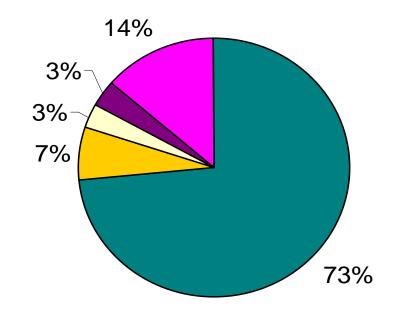




Program Characteristics (2)

Current Status of all Patients Receiving ARV Drugs Between June 2003 and June 2005

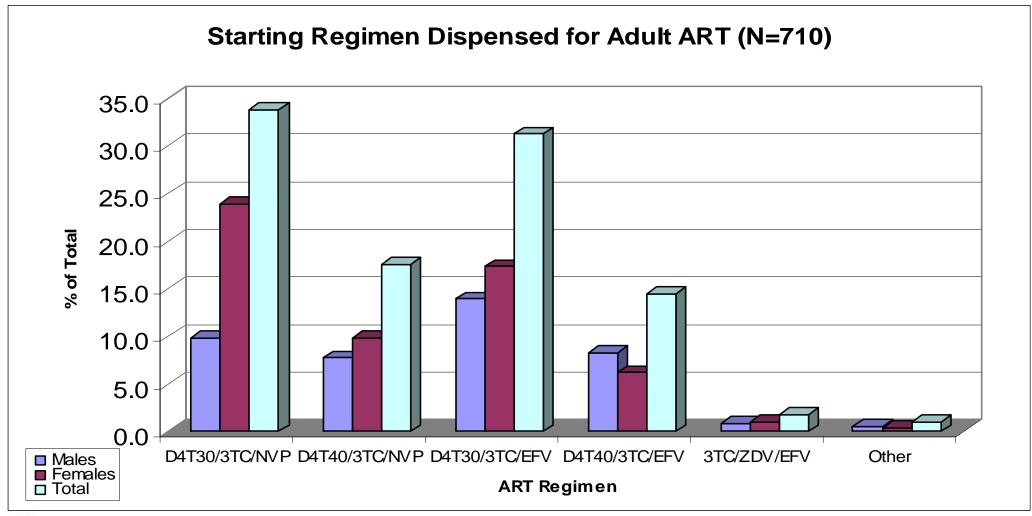
N=919



- active
- Deceased
- Lost to Follow Up
- Transferred Out
- PEP end

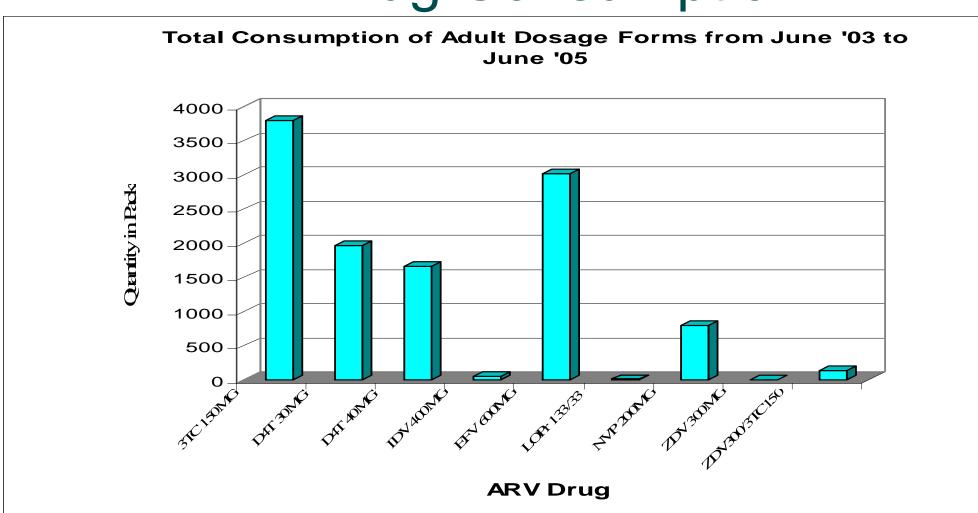


Regimens Dispensed





ARV Drug Consumption



RxSolution – The Way Forward

- Expand number of Sites in two additional Provinces (currently installed at 30 SA Government sites in 3 provinces)
- Enter into Agreement with IS Service Provider for support and maintenance
- Include National Standard Treatment Guidelines
- Link with other systems (e.g. Patient Record and Provincial Pharmaceutical Depot systems)
- Test with ORACLE database (current version use MS SQL)

For more information....

- Jean-Pierre Sallet
 - ~ jpsallet@msh.org
 - ~ 083 440 7283
- Gavin Steel
 - ~ gsteel@msh.org
 - ~ 083 276 7460